

## HTML AND CSS Assignments

1. Question: What is the CSS Box Model, and how does it affect the layout of elements on a webpage?

Exercise: Provide a simple HTML structure with a few elements and ask the students to apply CSS properties to manipulate the box model, such as margin, padding, and border.

2. Question: Explain the concept of CSS specificity. How is it determined, and why is it important in styling web pages?

Exercise: Present a set of HTML elements and CSS rules with varying levels of specificity, and ask students to predict the final styles applied to each element.

3. Question: What are CSS Flexbox and CSS Grid? Describe when you would use each layout model, and provide an example of both.

Exercise: Ask students to create a webpage layout using CSS Flexbox and another using CSS Grid, and compare the differences in the resulting layouts.

4. Question: Describe the difference between `position: relative`, `position: absolute`, and `position: fixed` in CSS. When and how would you use each of these position values?

Exercise: Provide a webpage with elements that need to be positioned using the different values, and ask students to apply CSS to achieve the desired layout.

5. Question: Explain the concept of CSS pseudo-elements like `::before` and `::after`. Provide an example where these pseudo-elements are used to enhance the design of a webpage.

Exercise: Give students a webpage with specific design requirements and ask them to use pseudo-elements to achieve those enhancements.

6. Question: What is responsive web design, and how can media queries be used to create responsive layouts? Provide an example of a responsive webpage.

Exercise: Provide a basic webpage and ask students to create a responsive design using media queries to adapt the layout for different screen sizes.

7. Question: Discuss the importance of accessibility in web development. Explain ARIA roles and attributes, and provide an example of making a webpage more accessible.

Exercise: Offer a webpage with accessibility issues, and ask students to improve its accessibility by adding ARIA roles and attributes.

8. Question: What is the purpose of the `<DOCTYPE>` declaration in HTML, and how does it affect the rendering of a webpage in different browsers?

Exercise: Ask students to create a simple HTML document and experiment with different `<DOCTYPE>` declarations to observe how they affect the rendering in various browsers.